

# District One GIS Data Distribution



What, Why, When,  
Past, Present,  
Future?

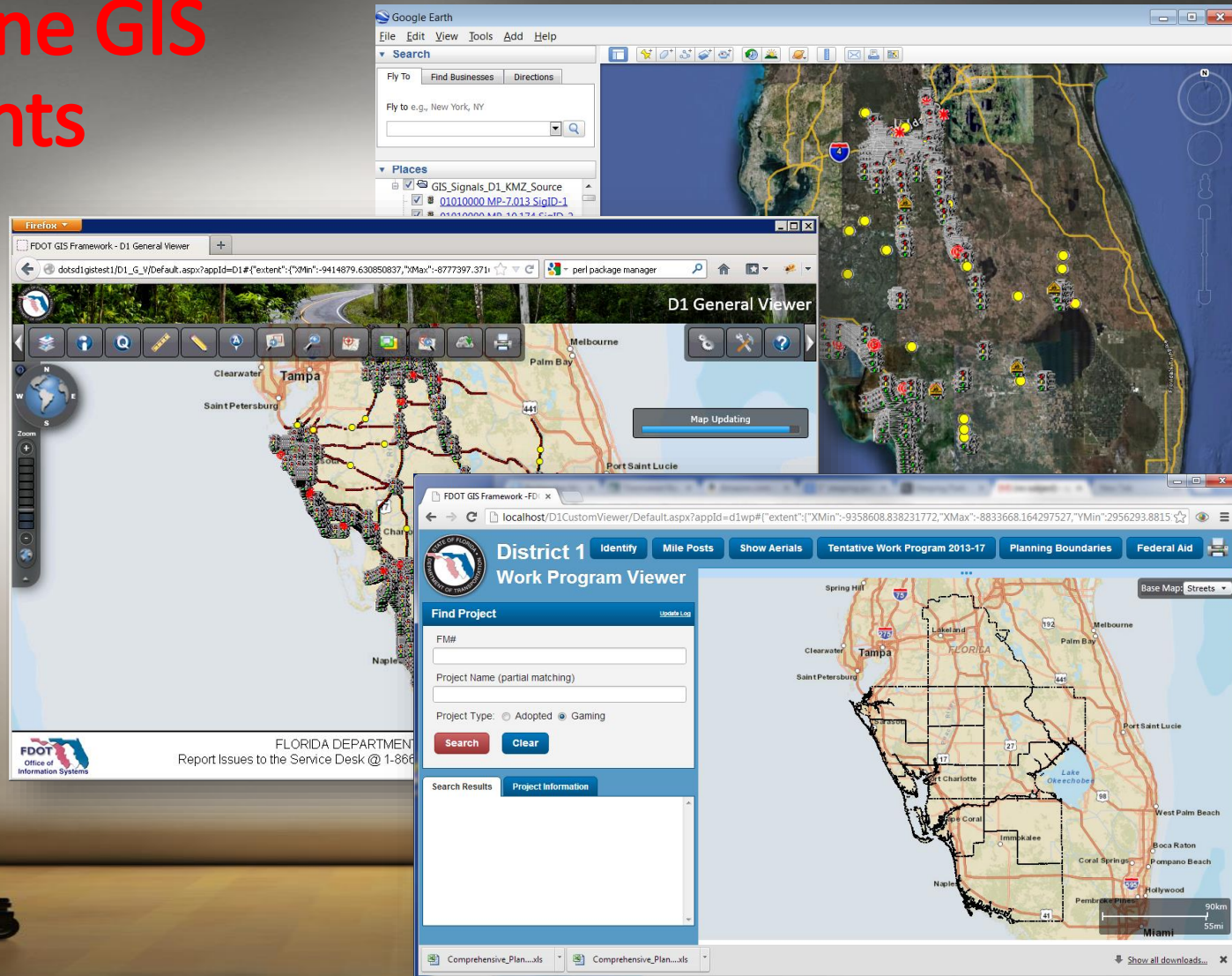
# Mapping Operations



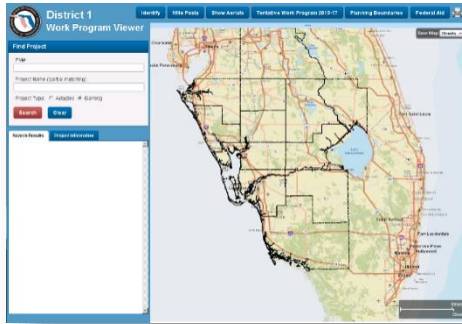
# Data Operations



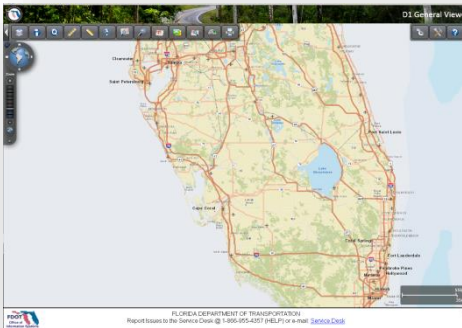
# District One GIS Presents



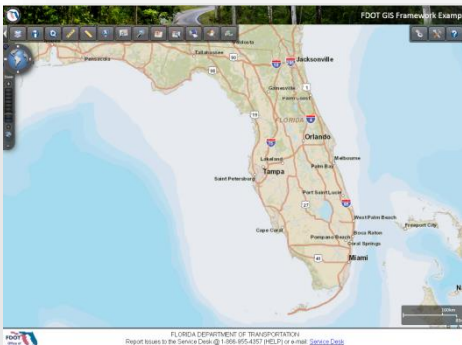
# Current District One GIS Viewers



- District One Work Program Viewer
  - Integrated work program information
  - Custom local data sets allowed
  - Transportation Statistics Office Layers updated
  - Mile Point Tool added to Frame Work

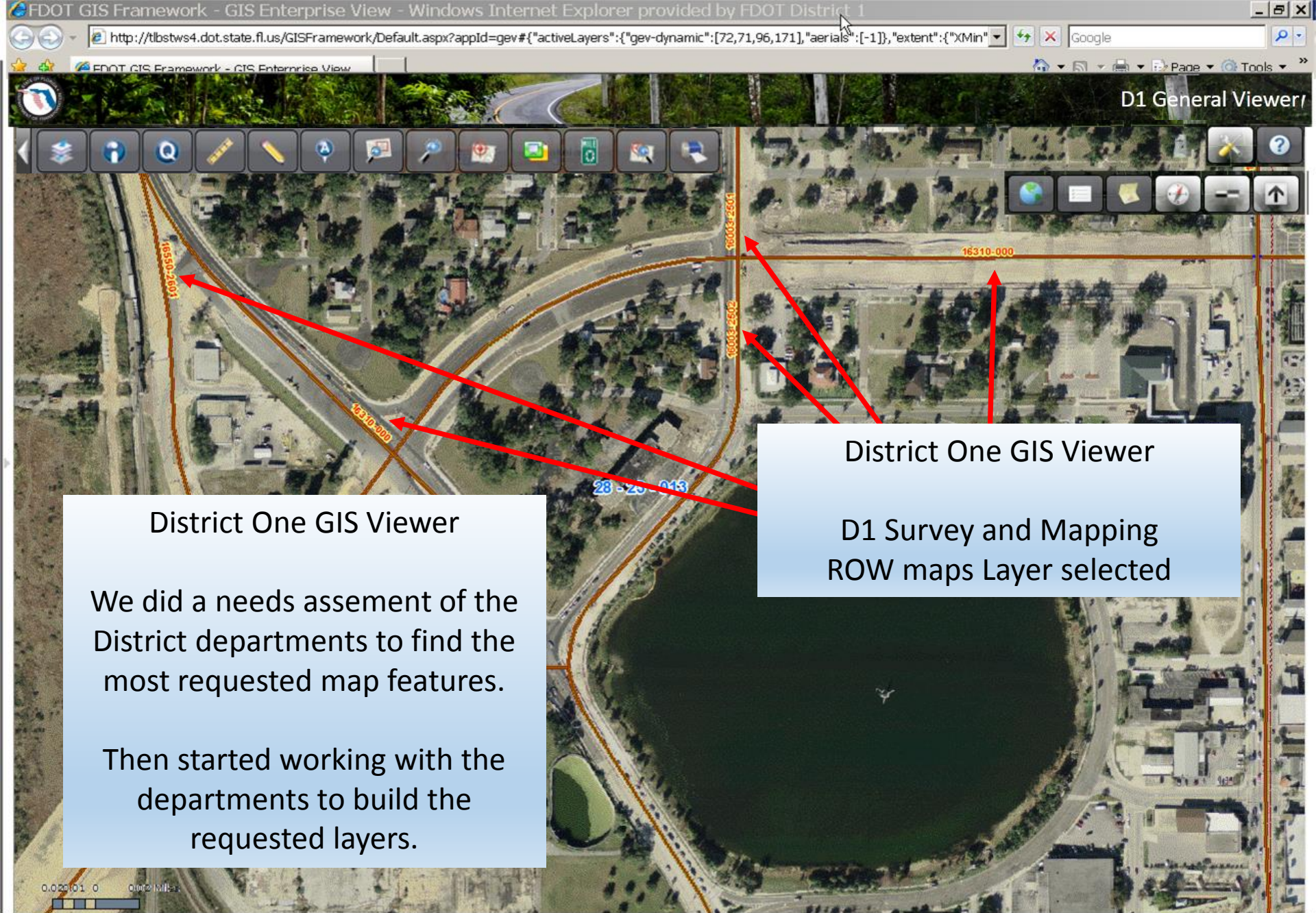


- District One General Viewer
  - Studies, Row, Safety, NGS & FDOT Bench Marks, Permits, SLD, RoW Maps, RoW Project History, LOS, D1 Signals, Count details, Flasher information, D1 and FDOT Parcels
  - Transportation Statistics Office Layers
  - All layers are updated on one of the following schedules:
    - Every Six Months, Monthly, Weekly, Nightly
  - Majority of the layers have Interactive Attribute data



- GIS Enterprise View (GEV)
  - Default base application
  - Used as mapping tool with in other FDOT applications
    - Project Suite Enterprise Edition (PSEE)
  - Central Office supplied data sets (State wide)





## District One GIS Viewer

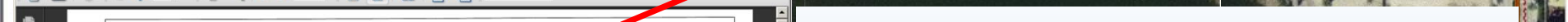
We did a needs assessment of the District departments to find the most requested map features.

Then started working with the departments to build the requested layers.

## District One GIS Viewer

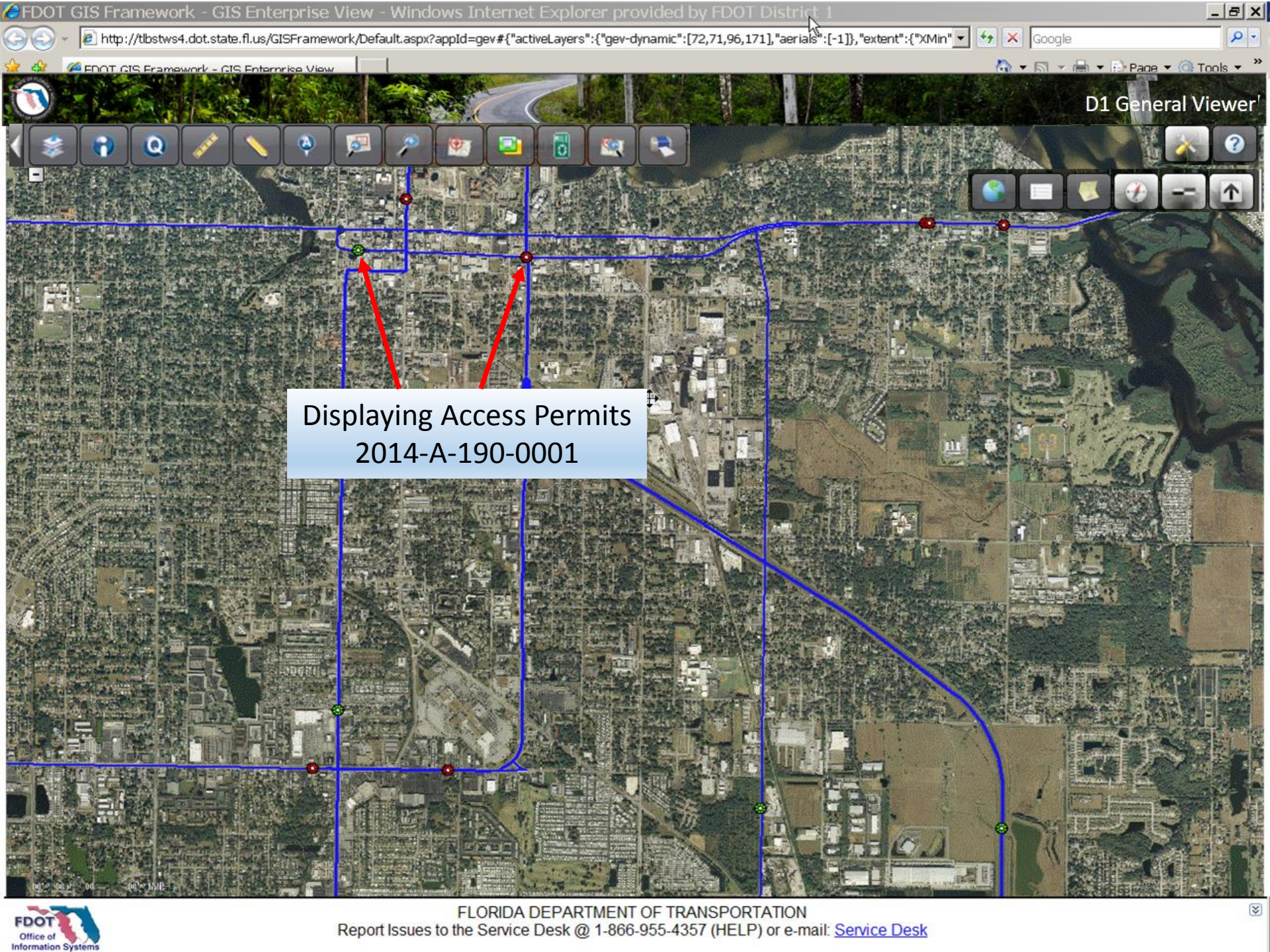
D1 Survey and Mapping  
ROW maps Layer selected





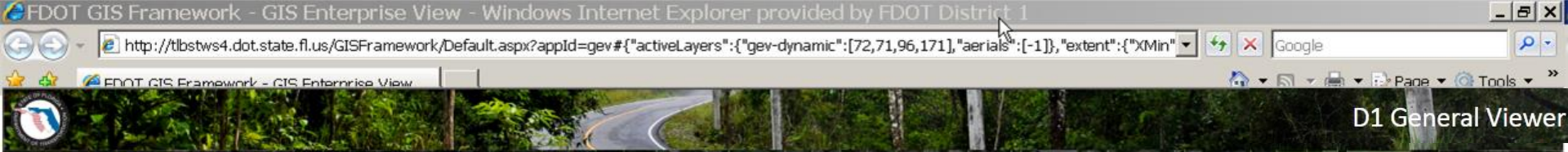
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Displaying Access Permits  
2014-A-190-0001





## District One GIS Viewer

- Step 1 – Click on Map ICON
- Step 2 – Click on Attribute with Hyperlink
- Step 3 – Review all related data and follow additional paths as desired.
- Step 4 – We selected the Permit plan set.

Site Actions | Browse | Page | Martin, George

**District One Permits - Detail\_ID**  
Summary of all items related to the history of a project.

Main-Home | **Permits** | Operation Centers | How To Use D1 Permits Site | [This Site: District One F] | Search

Permit\_Main [1]

Select	Permit_Number	Permit_Type	Permit_Description	Category	Ops_Center	Status	Rec_Date	Edit
<input type="checkbox"/>	2010-A-194-0033	Access	Manatee Cty 13th Street Transit Plaza	J	Sarasota	Closed	11/30/2010	
<input type="checkbox"/>	2010-A-194-0033	Access	Manatee County Transit Station		Sarasota	Open		

Applicant\_Name | Resp\_Officer | App\_Phone | Permit\_Number

Manatee County | Charlie Bishop | 941-749-3004 | 2010-A-194-0033

Engineer\_Name | Engineer\_Firm | Eng\_Phone | Permit\_Number

Jeb Mulock, P.E. | ZNS Engineering | 941-748-8080 | 2010-A-194-0033

Local\_Gov | Related\_Permits | Documents | Permit\_Number

Manatee County | 2010-A-194-0033 | 2010-A-194-0033 | 2010-A-194-0033

RoadwayID | SR | Beg\_MP | End\_MP | AM\_Class | Speed | Lane\_Closure | FPID | FH\_PH | Permit\_Number

13150000 | 64 | 8.467 | 8.467 | 45 | 422404-1 | 2010-A-194-0033

13150000 | 64 | 8.467 | 8.467 | 45 | 422404-1-52-01 | 2010-A-194-0033

Secondary\_Locations

RoadwayID | SR | Beg\_MP | End\_MP | AM\_Class | Speed | Lane\_Closure | FPID | FH\_PH | Permit\_Number

There are no items to show in this view of the "Secondary\_Locations" list. To add a new item, click "Add new item".

Permits\_Review

Status | S\_L | Date\_Rec | Action\_Taken | Action\_Date | Resp\_Due | Reminder | Permit\_Number | Edit

There are no items to show in this view of the "Permits\_Review" list. To add a new item, click "Add new item".

Information Systems

http://d1sharepoint.dot.state.fl.us/sites/permits/Permit\_Documents\_and\_Comments/Sarasota-194/20 - Windows Internet Explorer pro

http://d1sharepoint.dot.state.fl.us/sites/permits/Permit\_Documents\_and\_Comments/Sarasota-194/2010-A-194-0033/52\_Plane.pdf

Pages: Go to specific pages using thumbnail images

1 2 3 4 5 6 7

INDEX

CONSTRUCTION PLANS  
TO SHOW  
**DOWNTOWN BRADENTON TRANSIT STATION**

LOCATED IN  
SECTION 26, TOWNSHIP 34 SOUTH, RANGE 17 EAST  
CITY OF BRADENTON, FLORIDA

FDOT SECTION NO. 13150, MP 8.467  
FDOT SECTION NO. 13010, MP 7.437

SITE DATA:

**ZNS ENGINEERING**  
PROJECT: DOWNTOWN BRADENTON TRANSIT STATION  
DESIGNED BY: JEB MULOCK, P.E.  
CHECKED BY: CHARLIE BISHOP  
DATE: 11/30/2010

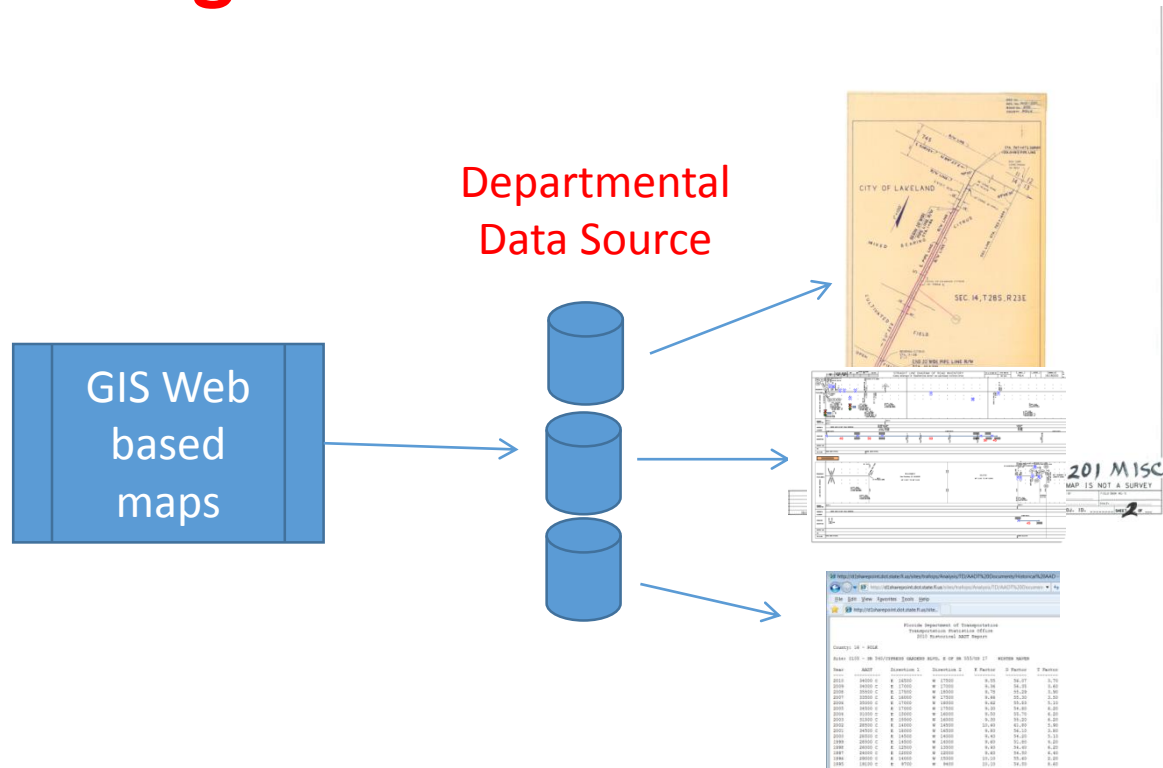


		FED. PROJ. ID. _____ SECTION _____		MAPS PREPARED BY _____ FIELD BOOK NO. _____	
PRELIM _____		STATE ROAD NO. _____ COUNTY _____		S.P.C. No. _____ STATE _____	
FINAL _____		FIN. PROJ. ID. _____		SHEET <b>2</b> OF _____	
BY _____		CHECKED _____			

DO NOT REPRODUCTION.



# Linking of Local FDOT data sources


























Using Google to Provide field users use of local layers with out active links



# Google Earth Our current back up to access FDOT features

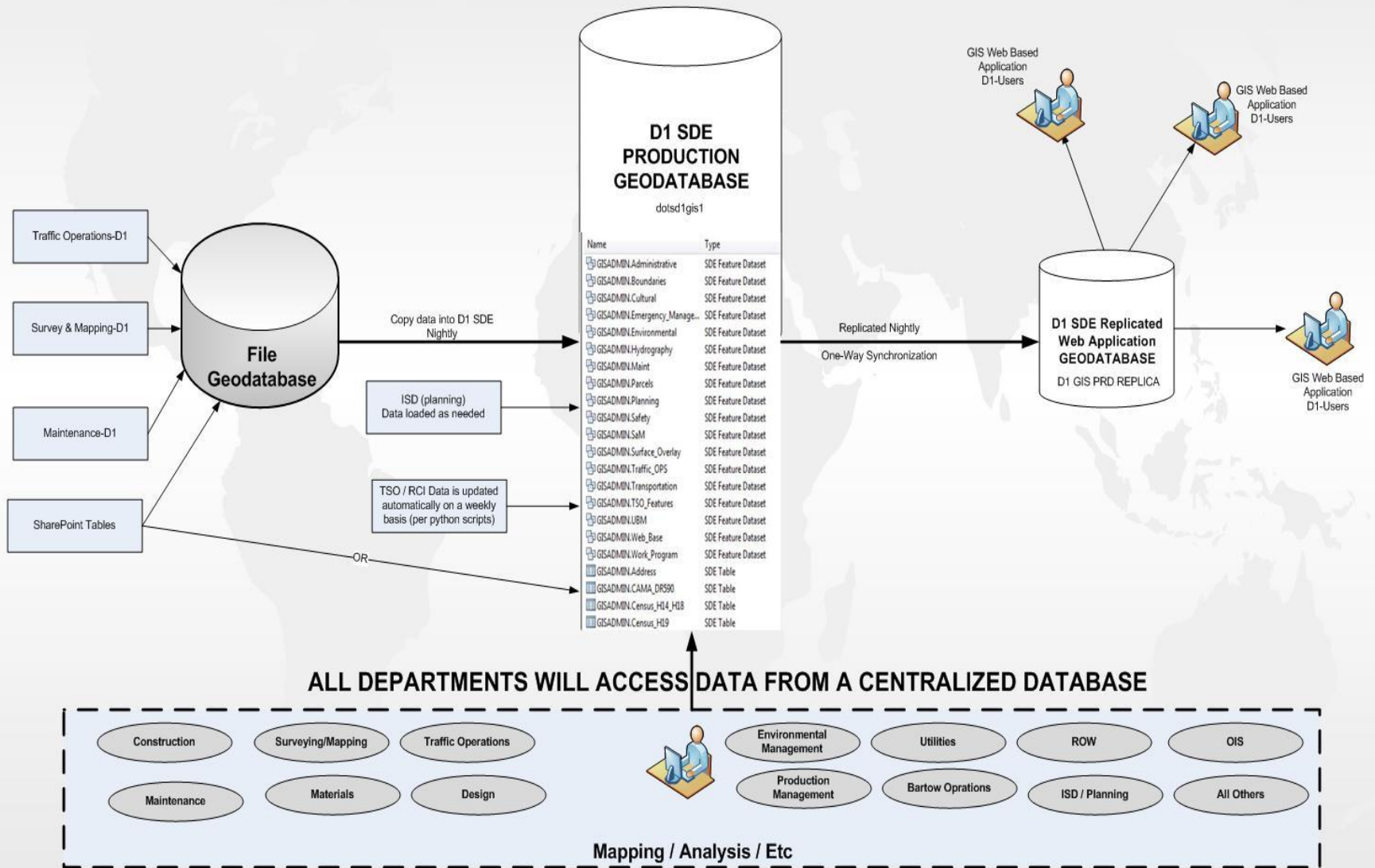
When Google Earth is used inside the FDOT network all FDOT link content functions, allowing users access to linked content.

When Google Earth is used outside the FDOT Network the only links that function are those that are accessing data from internet facing sites. Parcel and RoW maps are a good example. But the generic Location and Attribute Data assigned to the feature still functions, resulting in a useful tool for field work.

Name	Date modified	Type
 D1_Permits_Open.kmz	11/9/2011 9:36 AM	KMZ File
 D1_Permits_Closed.kmz	11/8/2011 11:22 A...	KMZ File
 Signals_GIS_D1.kmz	11/7/2011 9:16 AM	KMZ File
 D1_Off_Sys.kmz	10/27/2011 1:45 PM	KMZ File
 D1_SIS_Factp.kmz	10/27/2011 1:38 PM	KMZ File
 D1_FIHS.kmz	10/27/2011 1:32 PM	KMZ File
 D1_NHS.kmz	10/27/2011 1:26 PM	KMZ File
 D1_Fun_Class.kmz	10/27/2011 1:12 PM	KMZ File
 D1_Access_Mgmt.kmz	10/27/2011 1:05 PM	KMZ File
 D1_US_roads.kmz	10/25/2011 2:33 PM	KMZ File
 D1_Maxspeed_KMZ.kmz	10/25/2011 2:31 PM	KMZ File
 D1_Basemap_Route_Road.kmz	10/25/2011 2:26 PM	KMZ File
 D1_On_System.kmz	10/25/2011 2:24 PM	KMZ File
 D1_State_roads.kmz	10/25/2011 2:23 PM	KMZ File
 D1_Bridges.kmz	10/25/2011 2:22 PM	KMZ File
 D1_Railcrossing_RCI.kmz	10/25/2011 2:19 PM	KMZ File
 D1_Signal_Locations.kmz	10/25/2011 1:54 PM	KMZ File
 D1_Traffic Count.kmz	10/3/2011 10:30 A...	KMZ File
 WPA_092711.kmz	9/27/2011 4:57 PM	KMZ File
 D1_VideoLog_092911.kmz	9/20/2011 3:41 PM	KMZ File
 !_Instructions.pdf	8/24/2011 12:24 PM	Adobe Acrobat
 D1_Counties.kmz	8/23/2011 8:39 AM	KMZ File
 D1_SLD.kmz	7/26/2011 2:29 PM	KMZ File



# DISTRICT ONE GIS ENTERPRISE CURRENT DATA FLOW DIAGRAM



# GIS DATA DISTRIBUTION

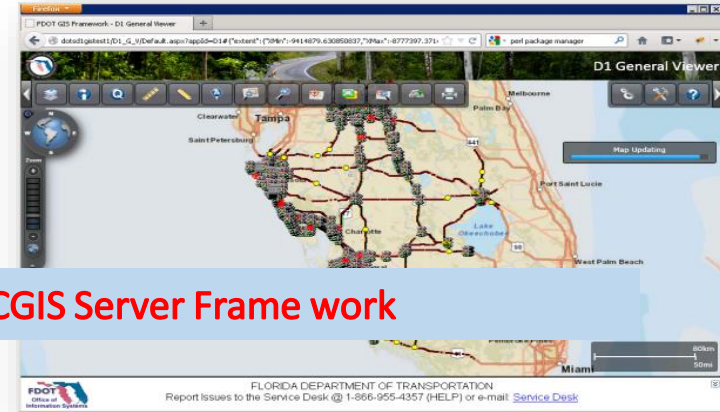
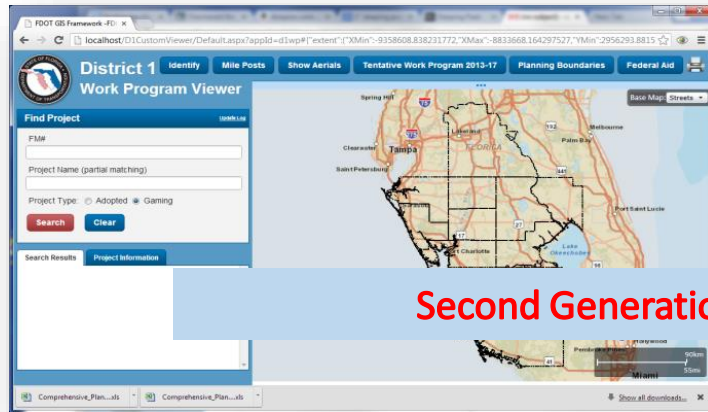
## *THE FUTURE*

For Information E-Mail: [Carl.Metz@dot.state.fl.us](mailto:Carl.Metz@dot.state.fl.us)

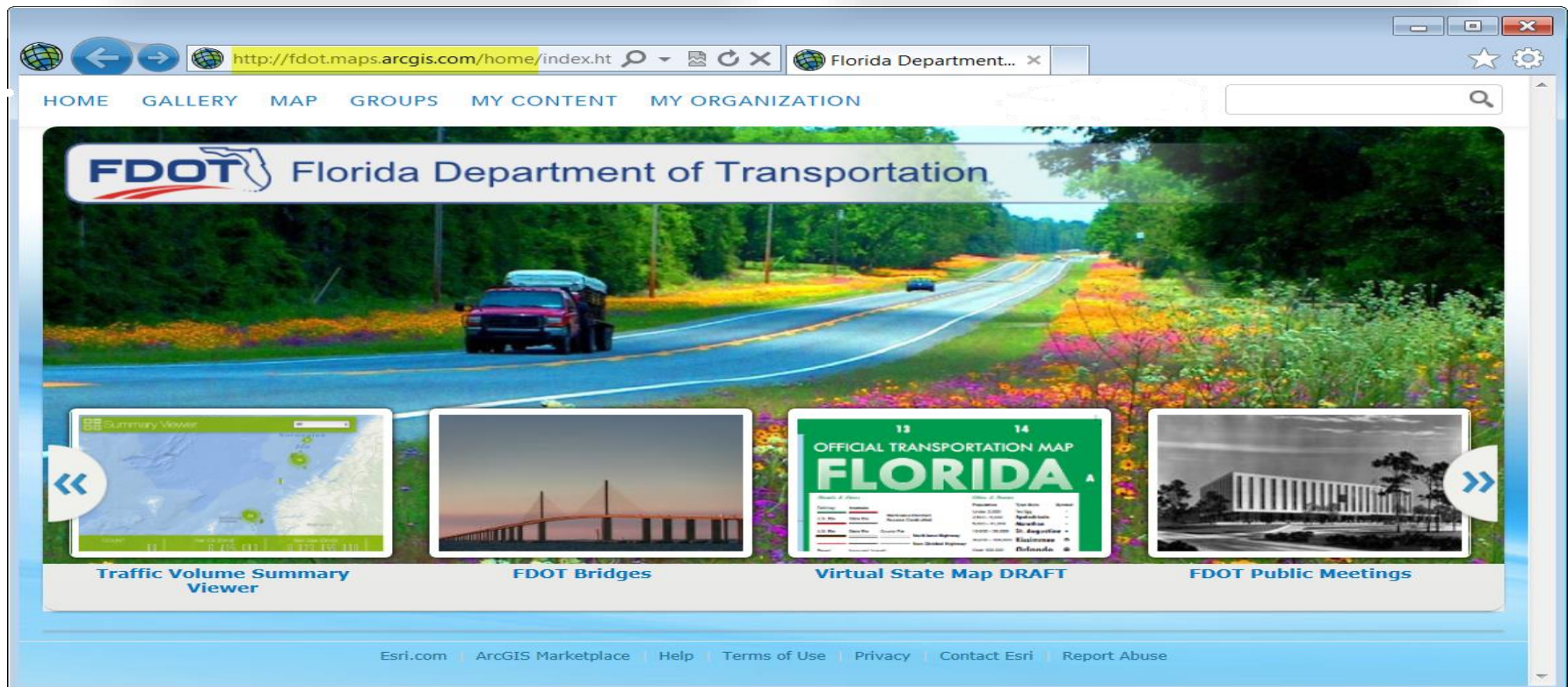




# FDOT District One future direction



## Second Generation ARCGIS Server Frame work



# Current ArcGIS Online Work Program map

**Contents**

- ☒ WORK PROGRAM / PLANNING
  - ☒ WP TENTATIVE 2015-2019
    - ☒ Dist Capacity Projects
      - ☐ D1\_Resurfacing\_T15
      - ☐ D1\_Operations\_T15
      - ☐ D1\_Bridge\_T15
  - ☐ WP ADOPTED 2014-2018
  - ☐ FEDERAL AID & LOS
    - ☐ Dist Level of Service 2012
    - ☐ Federal\_Aid\_Hwy
  - ☐ PLANNING BOUNDARIES
    - ☐ Dist DRI 2013
    - ☐ Dist Planned Unit Dev
    - ☒ Dist MPO Boundary
    - ☐ Dist RPC Boundart
    - ☐ Dist Urban Area Bond Smooth
    - ☐ Dist Urban Area CO
    - ☐ Dist Traffic\_Analysis\_Zones
  - ☐ INTERMODAL
    - ☐ Dist Airports 2011
    - ☐ Dist Intermodal
    - ☐ Dist Transit Hubs
    - ☐ Dist Rails\_2012
    - ☐ Dist Transit Routes

**Contents**

- ☒ BASE DATA
  - ☐ Dist Community
  - ☐ Dist Cities
  - ☒ Dist Counties
- ☐ ROAD CHARACTERISTICS
  - ☐ SIS\_Roads
  - ☐ AADT
  - ☐ Fun\_Class
  - ☐ Access\_Management
  - ☐ Maxspeed
  - ☐ Number\_Of\_Lanes
  - ☐ Divided
  - ☐ Median\_type
  - ☐ Median\_Width
  - ☐ Road\_Status
  - ☐ Interchange
  - ☐ Weigh\_In\_Motion
- ☐ DIST ROAD BASE
  - ☐ Interstates
  - ☐ Toll\_Roads
  - ☐ US\_Roads
  - ☐ State\_Roads
  - ☐ County\_Roads
  - ☐ On\_System
  - ☐ Off\_System

**Contents**

- ☒ WORK PROGRAM / PLANNING
  - ☒ WP TENTATIVE 2015-2019
    - ☒ Dist Capacity Projects
      - ☒ Construction
      - ☒ Design
      - ☒ PD E
      - ☒ ROW
    - ☐ D1\_Resurfacing\_T15
    - ☐ D1\_Operations\_T15
    - ☐ D1\_Bridge\_T15
  - ☐ WP ADOPTED 2014-2018
  - ☐ FEDERAL AID & LOS
    - ☐ Dist Level of Service 2012
      - ☒ B
      - ☐ C
      - ☐ D
      - ☐ E
      - ☐ F
    - ☐ Federal\_Aid\_Hwy
  - ☐ National Highway System
  - ☐ Surface Transportation Program
  - ☐ Federal Aid None
- ☐ PLANNING BOUNDARIES

HOME **ISD / WORK PROGRAM MAP** NEW MAP

Details Add Basemap Save Share Print Directions Measure Bookmarks

About Content Legend

**Contents**

- ☒ WORK PROGRAM / PLANNING
  - ☒ WP TENTATIVE 2015-2019
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      - ☐ E
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  - ☐ National Highway System
  - ☐ Surface Transportation Program
  - ☐ Federal Aid None
- ☐ PLANNING BOUNDARIES

0 10 20mi

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# Current ArcGIS Online Operations Map

☐ Traffic Cameras

☐ OperationsV10 S

☐ D1 Signals

☐ D1 SLD

☐ Speed Limit

☐ D1\_Permits OPEN

☐ D1\_Permits CLOSED

☐ Study\_Speed

☐ Study\_OTHER

☐ Study\_New Signal

☐ Study\_Signal Timing

☐ Study\_Signal Phase Change

☐ D1\_Safety Nodes

☐ D1\_Count Segments AADT

☐ TTMS

☐ PTMS

☒ AccessV10 S

☐ Access Management Code

☒ Funclass

☒ Max Speed

☒ Road Status

☐ Divided

☐ Median Type

☐ Median Width

☐ Number of Lanes

☐ Surface Width

☐ Pavement Conditions

☐ LOS\_2011

☐ Survey and MappingV10 S

☒ NGS H BM

☒ NGS V BM

☒ FDOT BM

☐ ROW Mapping

## Contents

☐ ROW Mapping

☒ District/County wide ROW Projects

☒ ROW Maps (No Roadway ID)

☒ ROW Maps

☒ ROW Project History

☐ Parcel Data 10

☐ D1 Outfall Ditches

☐ D1 Borrow Pits

☐ D1 On System ROW

☐ D1\_Parcels

☒ Charlotte County

☒ Collier County

☒ DeSoto County

☒ Glades County

☒ Hardee County

☒ Hendry County

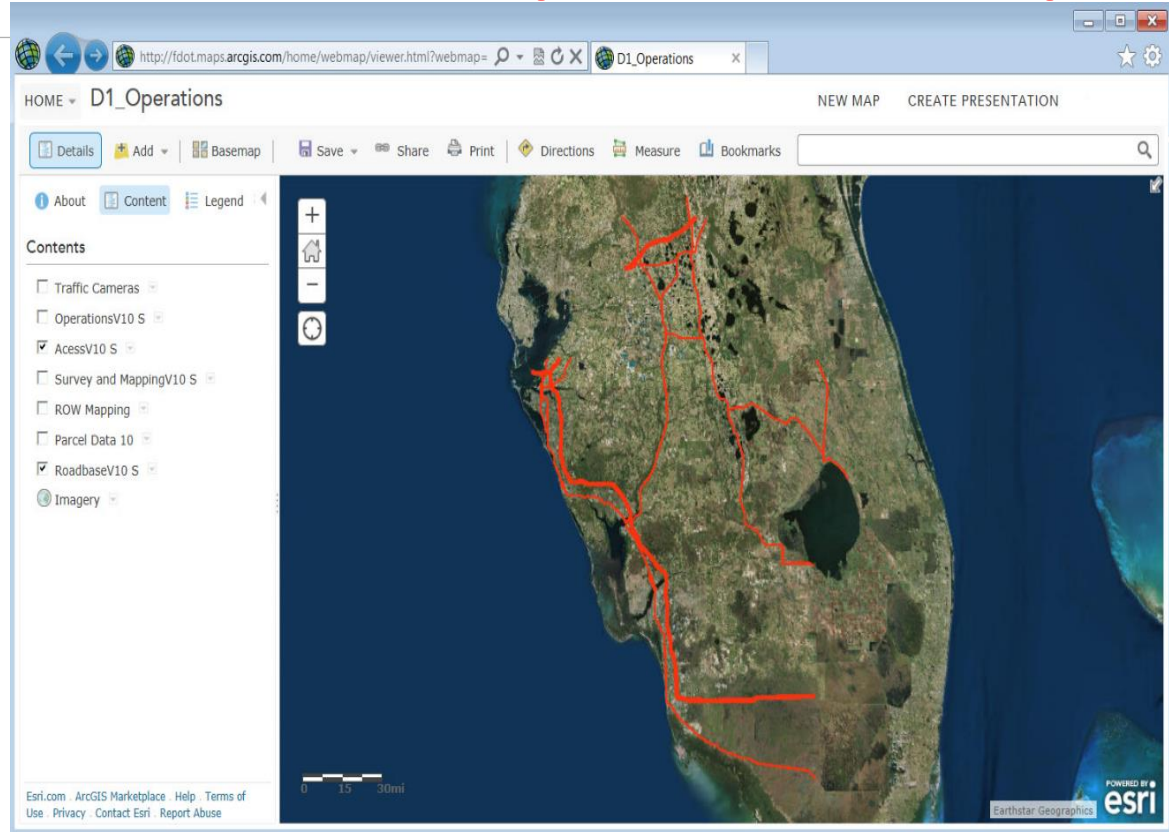
☒ Highlands County

☒ Lee County

☒ Manatee County

☒ Okeechobee County

☒ Polk County

☒ Sarasota County


**Currently:** Existing framework functionality has been matched for operations on the FDOT intranet, with the exception of *Mile Point tool* used in Framework GIS application.

## Future:

- 1: Add existing Intranet functionality to the Internet users, when security allows.
- 2: Add a functionality for Mile Point tool.
- 3: Add Mobil device support for field use.

# Current ArcGIS Online Emergency Operations Map

http://fdot.maps.arcgis.com/home/webmap/viewer.html?webmap=5465d28429f4: EMERGENCY MANA... X

HOME ▾ EMERGENCY MANAGEMENT NEW MAP

Details Add ▾ Basemap Save ▾ Share Print Directions Measure Bookmarks

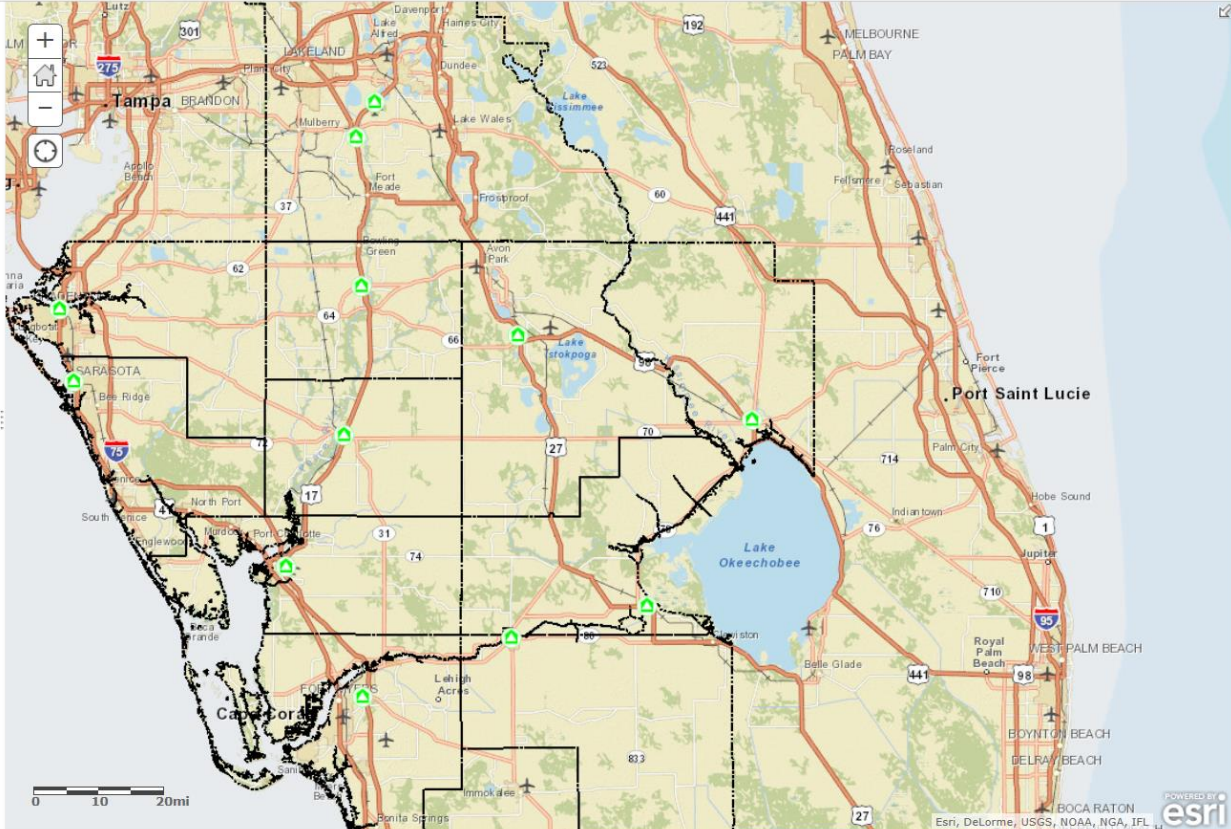
Contents

- ☐ ROAD FEATURES
  - ☐ DIST Evacuation Routes ▾
  - ☐ Dist Bridge Points ▾
  - ☐ Dist Rest Welcome FDOT ▾
  - ☐ Dist Movable Bascule Bridges ▾
  - ☐ Dist Bridges ▾
  - ☐ Dist On Sys ROW ▾
  - ☐ Dist Borrow Pits ▾
  - ☐ Dist Outfall Ditches ▾
  - ☐ Dist Federal Aid Hwy Sys ▾
  - ☐ Charlotte Lee Guard Rail\_12 ▾
  - ☐ Glades Hendry Guard Rail\_06 ▾
  - ☐ Manatee Sarasota Guard Rail 08 ▾
  - ☐ Polk Guard Rail 09 ▾
- ☐ ROAD CHARACTERISTICS
  - ☐ SIS\_Roads ▾
  - ☐ AADT ▾
  - ☐ Fun\_Class ▾
  - ☐ Access\_Management ▾
  - ☐ Maxspeed ▾
  - ☐ Number\_Of\_Lanes ▾
  - ☐ Divided ▾
  - ☐ Median\_type ▾
  - ☐ Median\_Width ▾
  - ☐ Road\_Status ▾

About Content Legend

Contents

- ☒ FACILITIES
  - ☒ Dist EOC ▾
  - ☐ Dist Hospitals ▾
  - ☐ Dist EMS ▾
  - ☐ Dist Fire Stations ▾
  - ☐ Dist Lawenforce ▾
  - ☐ Dist Schools ▾
  - ☐ Dist Nursing Homes ▾
  - ☐ Dist Correctional ▾
  - ☐ Dist Solid Waste Facilities ▾
  - ☐ Dist Power Plants ▾
  - ☐ Dist Powerlines ▾
  - ☐ Dist Cell Towers ▾
- ☐ FLOODING
  - ☐ Dist Roads Prone to Flooding ▾
  - ☐ Dist Evacuation Zones ▾
  - ☐ Dist National Wetlands Inv ▾
  - ☐ Dist FEMA ▾
- ☐ ROAD FEATURES
  - ☐ ROAD CHARACTERISTICS
    - ☐ DIST ROAD BASE ▾
- ☒ BASE
  - ☒ Streets ▾



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# District One - Mobil GIS direction



GPS units are used to:

- 1) Accurately mark the locations of features like , fire hydrants, system valves, etc.
- 2) Enter unique attributes like diameter or hydrant ID into the GPS point



Questions?

